

Title (en)

An infeed mechanism for a paper press or the like

Title (de)

Zuführvorrichtung für eine Papierdruckmaschine oder dergleichen

Title (fr)

Mécanisme d'alimentation pour une machine à imprimer le papier ou similaire

Publication

EP 0741014 A3 19970813 (EN)

Application

EP 96303001 A 19960429

Priority

GB 9509138 A 19950501

Abstract (en)

[origin: EP0741014A2] In presses for printing on a continuous web of paper, various units disposed in series are driven in synchronisation by a line-shaft, and an infeed friction cylinder has been driven independently by an electric motor so controlled by sensors as to modulate the rotation ratio between the line-shaft and the friction cylinder to control lengthwise stretching of the web, and also control the position or phase of the web when it is re-inserted for subsequent printing. Accuracy has been limited by the independent friction cylinder drive and also by transmission errors in the sensor drives. Superior accuracy is achieved by driving the friction cylinder 50 directly from the line-shaft 54 by way of a phase-shifting gearbox 72 in series with a bevel gearbox 74, the phase-shifting gearbox additionally being driven by an electric servo-motor 102 controlled by a first position encoder 98 driven directly by the line-shaft and a second position encoder 100 driven directly by the friction cylinder so as to modulate the rotation ratio, and also controlled by marks printed on the web 38 and by a reference point on a gear driven directly by the line-shaft so as to synchronise the position of the web. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

B41F 13/008 (2013.01); **B41F 13/02** (2013.01); **B65H 2511/512** (2013.01); **B65H 2515/31** (2013.01); **B65H 2553/40** (2013.01); **B65H 2553/51** (2013.01)

Citation (search report)

- [A] US 3677177 A 19720718 - SMITH ROY R JR
- [A] GB 2150121 A 19850626 - TAIYO TEKKO KK, et al
- [A] US 3152542 A 19641013 - JEAN CHAMBON LOUIS

Cited by

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